

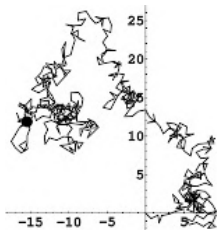
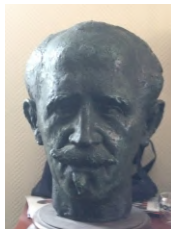
Cours 2-Diffusion dans la cellule

J.F. Joanny

Cours 2, Collège de France, 02 février 2026



Diffusion passive



Diffusion de nano-particules

Domanov et al.

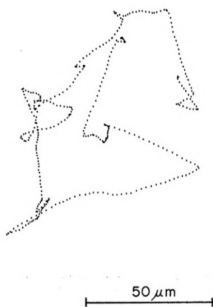
Etoc et al.



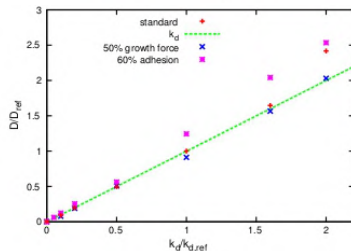
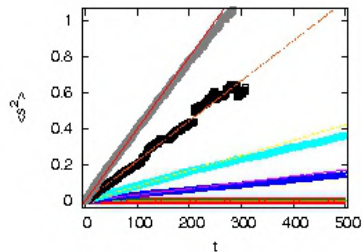
Diffusion active

Tracking *E. coli*

runs ~ 1 s
tumbles ~ 0.1 s



H. C. Berg & D. A. Brown, 1972

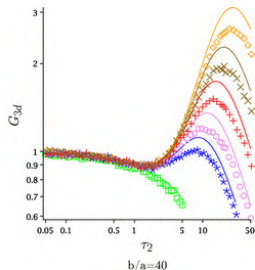
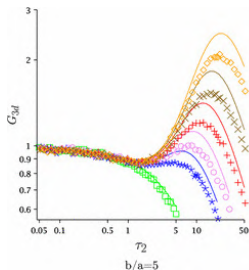
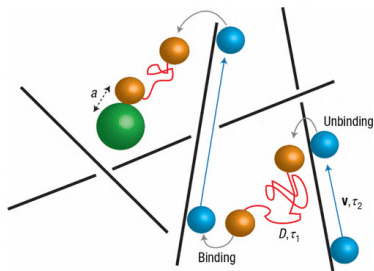


M. Basan et al.

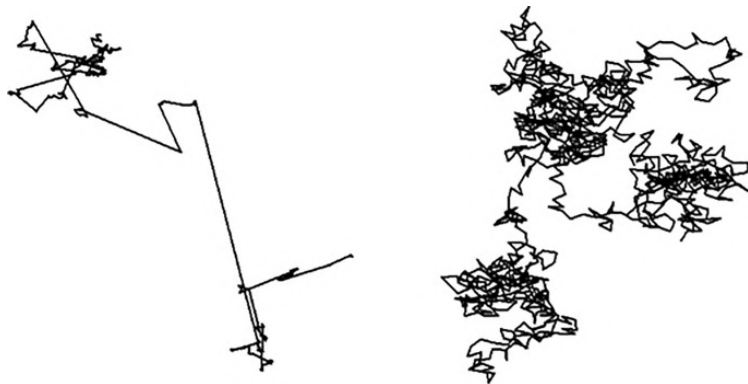


institut Curie
Together we let's beat cancer.

Transport intermittent dans le cytoplasme



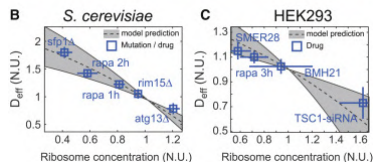
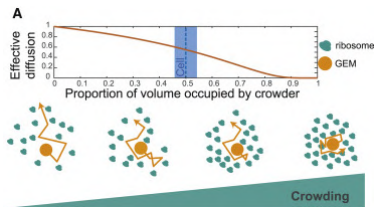
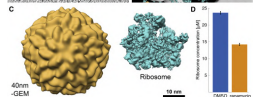
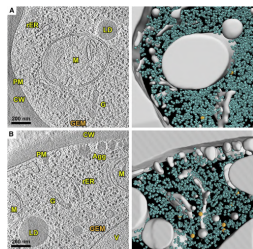
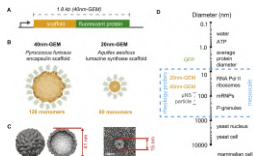
Marche de Levy



A. Reynolds



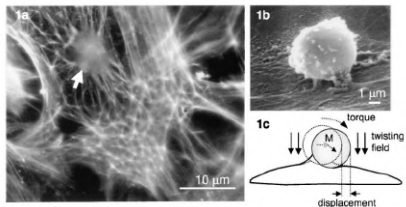
Diffusion dans un milieu cellulaire encombré



M. Delarue



Comportement vitreux de la cellule



Fabry et al.

